

KENWOOD

CASSETTE-RECEIVER

KRC-860

KRC-660

KRC-560

INSTRUCTION MANUAL

KENWOOD CORPORATION

Take the time to read through this instruction manual. Familiarity with installation and operation procedures will help you obtain the best performance from your new cassette-receiver.

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your KENWOOD dealer for information or service on the product.

Model KRC-860/660/560 Serial number _____

SAFETY PRECAUTIONS

▲WARNING

To prevent fire and avoid personal injury in case of accidents

- Make sure the faceplate is securely locked in place.
- When extending the power supply, memory backup or ground lead, avoid short circuits by using 0.75mm² (AWG 18) or larger automotive grade cable.
- Check to be sure that no metal objects (tools, needles, coins) are left inside the unit.
- If you smell or see smoke, disconnect the unit immediately and consult your KENWOOD dealer. Continued use can cause a fire or permanent damage to the unit.

FCC WARNING

This equipment generates and uses radio frequency energy. Changes or modifications other than those expressly approved in the instruction manual may cause interference with radio and television reception. Unauthorized changes may lead to the user's loss of the authority to operate this equipment.

▲CAUTION

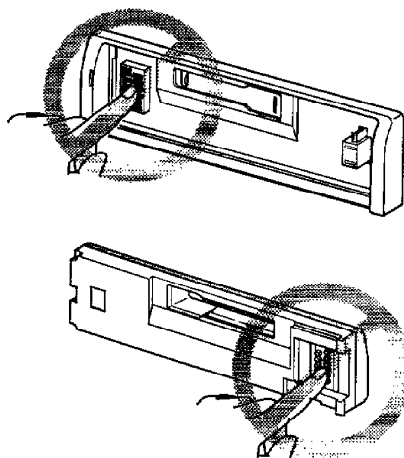
To keep the unit in proper working order

- Be sure it's connected to a 12V DC power supply with a minus ground connection.
- Do not open front panel or top or bottom cover.
- Do not expose this unit to direct sunlight or high heat.
- Keep it clean and dry.
- Be sure it is fastened securely and not exposed to excess vibration.

CAUTION

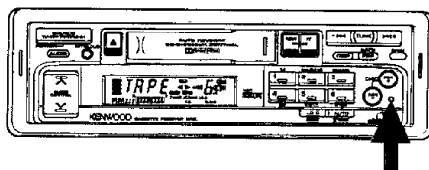
This unit is equipped with a theft deterrent faceplate. To prevent damage to the faceplate and case

- Avoid exposure to direct sunlight and heat. High temperatures can cause deformation and warping.
- Avoid exposure to water.
- The faceplate is a high-precision instrument. When the faceplate is detached, store it in its special case. Never drop it or subject it to other shocks.
- Do not touch the faceplate terminal or faceplate mount with your fingers.



NOTE

- If you have difficulty in installing this unit in your vehicle, please contact your KENWOOD dealer.
- If it doesn't seem to be working properly, first press the Reset button. If the malfunction persists, consult your KENWOOD dealer.



Reset button

Be careful with your tapes

- Before loading a cassette, check for slack tape. If the tape is slack, use a pencil to turn one of the spools in the cassette shell to tighten it up. Playing a slack tape can cause tape to tangle and other problems.
- Do not leave cassettes exposed to direct sunlight, high heat, or moisture. These can deform the cassette shell and make it impossible to eject.
- Avoid use of 120-minute tapes. These tapes are thin and easily become tangled.

CARE AND MAINTENANCE

Cleaning

1. Always turn the power OFF before cleaning.
2. Wipe the front panel and other exterior surfaces with a soft dry cloth or a soft cloth lightly moistened with a neutral detergent.

CAUTION

- DO NOT use abrasive pads or paint thinner, benzene, or other volatile solvents. These may remove the indicator characters.

Head cleaning

As you listen to cassettes, magnetic dust and other grime accumulates around the heads and eventually causes noise that lowers sound quality. To clean the heads use a cleaning tape or cleaning kit. Both can be purchased at audio specialty or recorded music shops. Make sure you purchase a kit suited to car audio use.

Cleaning the faceplate terminal

If the faceplate terminal or faceplate mount terminal become dirty, wipe them clean with a soft, dry cloth.

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Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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FEATURES

■ TUNER FEATURES

- **Auto seek tuning (p.10)**
Automatically searches for stations you can receive.
- **Local scan (p.12)**
When this feature is turned on, it combines scanning and Auto Memory and presets only strong stations offering good reception.
- **Preset stations (p.16)**
Stores the frequencies of your favorite stations in memory, for one-touch tuning.
- **Auto memory (p.17)**
Automatically stores the strongest stations you can pick up, for one-touch tuning.
- **Priority preset (p.18)**
This feature allows instant one-touch access to a station you often listen to (for news, traffic information, etc.), regardless of your tuner's operating mode.

■ CASSETTE PLAYER FEATURES

- **Tape advance (p.19)**
(KRC-860/660 only)
Allows you to skip ahead to the next track from the one you are playing.
- **Tuner call (p.20)**
Allows you to listen to the tuner while rewinding or fast forwarding a cassette.

■ CD AUTO CHANGER FEATURES

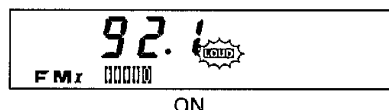
- **CD auto changer control (p.21~27)**
Controls operations of the CD auto changer.
- **Track repeat (p.23)**
Plays the same track repeatedly.
- **Disc repeat (p.23)**
Plays the same disc repeatedly.
- **Track scan (p.24)**
Automatically plays the first part of each track on the disc in sequence, to help you find the one you want.
- **Disc scan (p.25)**
Automatically plays the first part of each disc in the CD auto changer, to help you find the one you want. Especially helpful when you cannot remember the number of the disc you want.
- **Random play (p.26)**
Plays the tracks on a CD in random order.
- **Magazine random play (p.27)**
Plays discs and tracks of discs in your auto changer in random order.

■ CONVENIENT FEATURES

- **Mute (p.8)**
Lets you quickly lower and restore volume with one-touch ease. It can also be set to fade in to the previous volume gradually.
- **Tuner timer (p.30)**
This feature allows you to store a time and tuner preset. At the selected time the tuner will automatically change to the preset station from the station currently tuned or from cassette (or CD) play.
- **Clock display (p.32)**
Displays the time in the display window.
- **Theft deterrent faceplate (p.33)**
When you leave the vehicle, you can take the faceplate with you, to help prevent theft.
- **Selectable illumination (p.34) (KRC-860/660 only)**
Allows illumination color to be switched between green and orange.
- **Selectable display type (p.35) (KRC-860/660 only)**
Lets you change the display from negative to positive or vice-versa.
- **Active front surround (p.36) (KRC-860 only)**
This advanced surround feature brings life-like sound to even 2-speaker systems.
- **Phone interface (p.37) (KRC-860 only)**
Pauses the player automatically whenever a call is received.
- **Channel band selection (p.38)**
Allows you to switch bands between FM:200kHz/AM:10kHz and FM:50kHz/AM:9kHz.
- **Automatic illumination**
Causes the display panel to light up when the vehicle's lights are on.
- **Dimmer control (KRC-860 only)**
Automatically dims the display when interior lights are turned on.

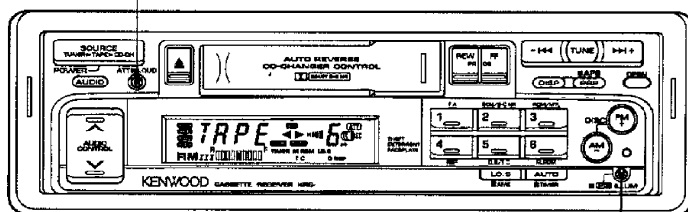
■ KRC-860/660

- ▶ If the Loud indicator light is not illuminated, press the Loud button for more than one second. (Loud indicator light will light up. Bass volume increases.)



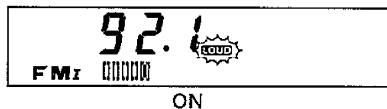
TO RESTORE ORIGINAL LEVELS

- ▶ Press the Loud button again for more than one second. (Loud indicator light will go out.)



■ KRC-560

- ▶ If the Loud indicator light is not illuminated, press the Loud button. (Loud indicator light will light up. Bass volume increases.)



TO RESTORE ORIGINAL LEVELS

- ▶ Press the Loud button again. (Loud indicator light will go out.)

AUTO SEEK TUNING

WHILE LISTENING TO THE TUNER

- Press the Source button to select Tuner mode.
(If you see the "TUnE" display, you are in Tuner mode.)

TUNE

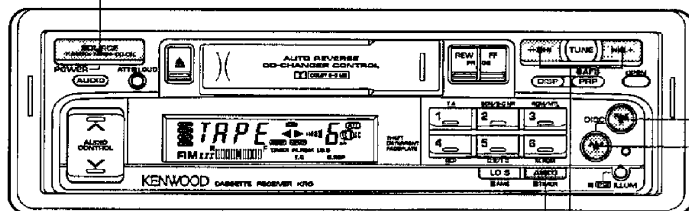
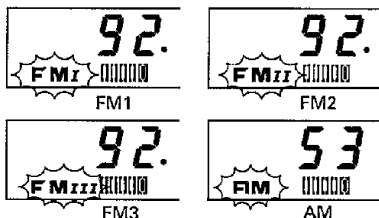
1

To select an FM band

- ▶ Press the FM button to choose FM1, FM2 or FM3.



To select an AM band

- Press the AM button.



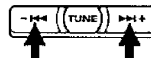
2

- If the Auto indicator light is not illuminated, briefly press the Auto button to turn the Auto function on.
(The Auto indicator light will light up.)

92.1
FMI  
ON

3

- Press either the Down seek or the Up seek button.
(The Auto seek function will find the next station you can receive.)



DOWN SEEK UP SEEK

Illuminated when FM stereo broadcasts are received.

92.1
FM1 00000

Display shows frequency of station received.

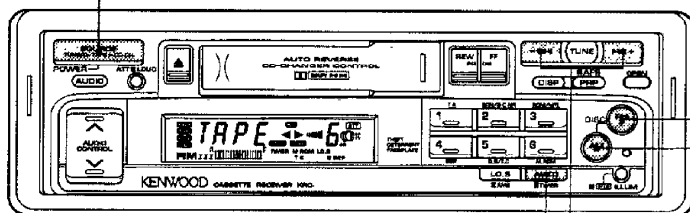
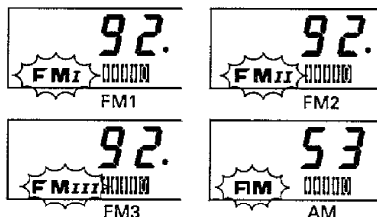
WHILE LISTENING TO THE TUNER

- ## TUNE

1

- ▶ Press the FM button to choose FM1, FM2 or FM3.


► Press the AM button.



2

- 92.1
FM 1234567890
OFF

3

- 

Down: for lower frequencies Up: for higher frequencies

A close-up of a car's digital display. The main display shows '92.1' in large digits. To the right of the main display is a small 'ST' icon. Below the main display, the text 'FM1' is visible on the left, and a series of vertical bars of varying heights are on the right.

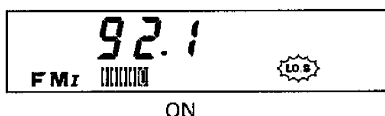
Your new Cassette Radio **11**

LOCAL SCAN

1

To turn on Local scan

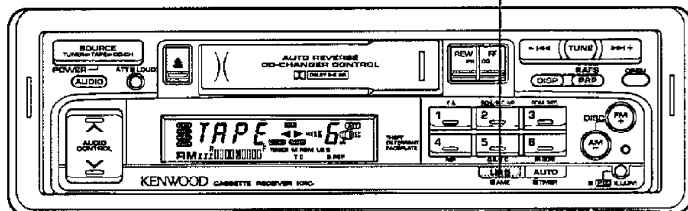
- Briefly press the Local scan button.
(The indicator light will light up.)



2

To turn off Local scan

- Briefly press the Local scan button again.
(The indicator light will go out.)

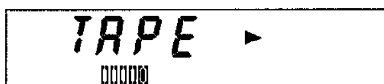


TO PLAY CASSETTES

TO PLAY

- ▶ Insert a cassette tape with the exposed tape facing to the right, then press the Source button to select TAPE.

(When the word "TAPE" appears on the display, playback will start.)

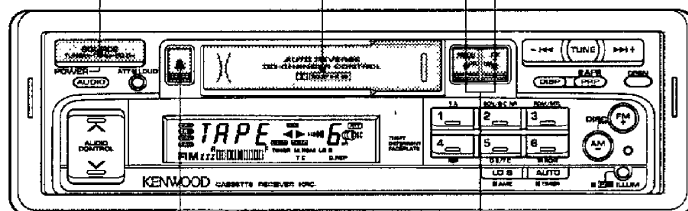


TO FAST FORWARD/REWIND

Operation	Press
Fast Forward	FF
Rewind	REW

- ▶ To stop Fast forward, press REW button and to stop Rewind, press FF button.

(The ◀▶ display will blink during Fast forward/Rewind.)



TO STOP AND EJECT

- ▶ Press the Eject button.
(The player will eject the cassette.)

TO SWITCH SIDES

- ▶ Press the FF and REW buttons simultaneously.
(The player will play the reverse side.)

TAPE PLAY INDICATORS

When you insert the cassette with side A up.

Please note: If side B is up, the indicators will be reversed.

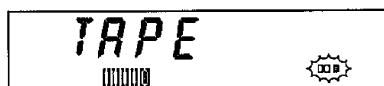
Indicator	Tape side playing
▶	Side A
◀	Side B

DOLBY B/C NR

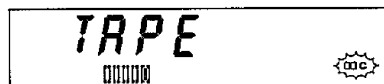
■ Function of the KRC-860

DOLBY B/C NR

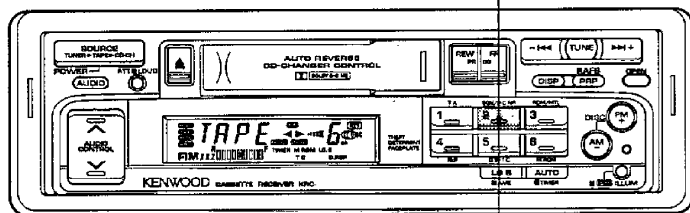
- ▶ When you press the Dolby B/C NR button, the unit will shift from Dolby B NR to Dolby C NR, from Dolby C NR to OFF and from OFF to Dolby B NR again.
(The display will change accordingly.)



Dolby B NR ON.



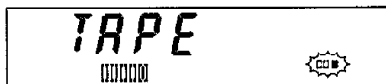
Dolby C NR ON.



■ Function of the KRC-660

FOR DOLBY B NR

- ▶ Press the Dolby B NR button.
(The DOLBY B NR indicator will be displayed.)



ON

TO TURN OFF DOLBY B NR

- ▶ Press the Dolby B NR button again.
(The indicator will disappear.)

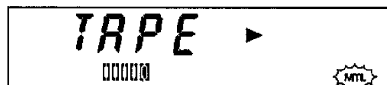
MANUAL TAPE TYPE SELECTION

■ Function of the KRC-860/660

FOR METAL/CHROME CASSETTES

- ▶ If you don't see the Metal indicator on the display, press the Metal button.

(When you see the indicator, the unit is set in metal/chrome position.)



Metal/Chrome tape position.

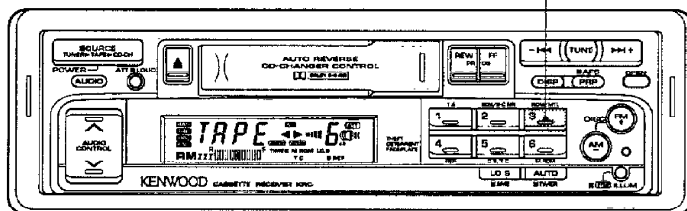
FOR NORMAL CASSETTES

- ▶ If you see the Metal indicator on the display, press the Metal button.

(When you don't see the indicator, the unit is set in normal position.)



Normal tape position.



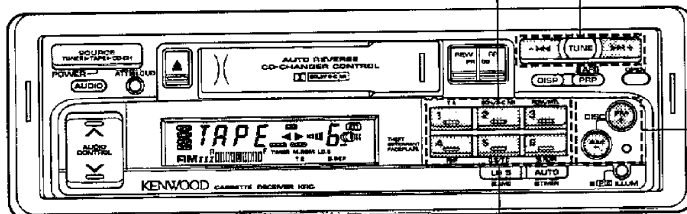
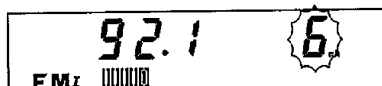
PRESET STATIONS

1

Select the band and station you want to preset.

2

- ▶ Press the Preset station button you want to use for more than two seconds.
(When the station is entered in memory, the number of the button to which you've assigned it will appear on the display.)

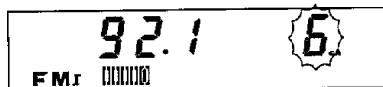


3

By repeating steps 1 and 2 you can preset each button for one station each from the FM1, FM2, FM3 and AM bands.

4 USING PRESET STATIONS

- ▶ Briefly press the button of the station you want.
(When you press the button, you will hear the station assigned to it.)



NOTE

- When you assign a preset station to a button, the previous setting will be erased.

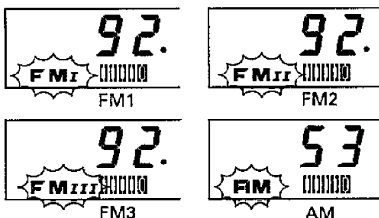
1

To select an FM band

- Press the FM button to choose FM1, FM2 or FM3.

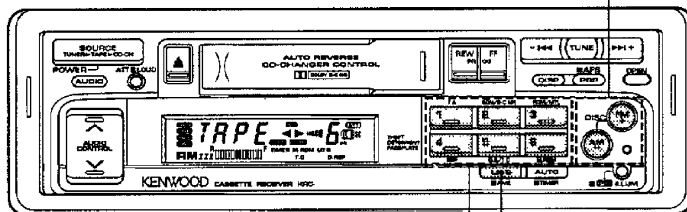
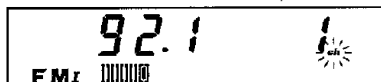
To select an AM band

- Press the AM button.



2

- Press the Auto memory button for more than two seconds. (When the seek function finds a station, the "ch" indicator will blink. The display will show the number of the button to which it has been assigned.)



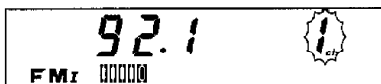
3

When six stations have been found, the Auto memory function stops. You will hear the last station selected.

4

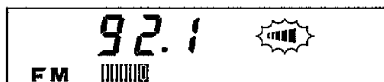
USING PRESET STATIONS

- Briefly press the button of the station you want. (When you press the button, you will hear the station assigned to it.)



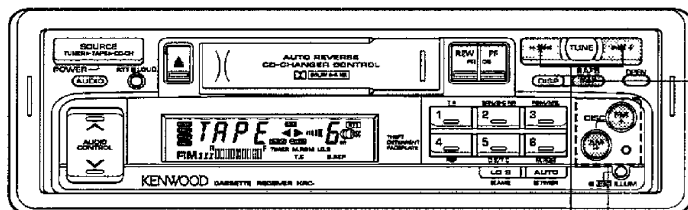
PRIORITY PRESET

- Briefly press the Priority preset button.
(As soon as reception begins, the display will show the priority preset indicator.)



TO TURN IT OFF

- Briefly press the Priority preset button again.
(The indicator will disappear and the tuner will return to the previous mode.)



TO CHANGE THE PRIORITY PRESET

- Briefly press the Priority preset button and tune to the station you want.
(The next time you press Priority preset, the tuner will shift to this station automatically.)

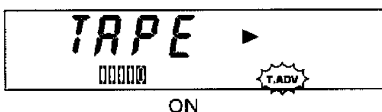
NOTE

- Only seek and manual tuning can be used in Priority preset mode.

■ Function of the KRC-860/660

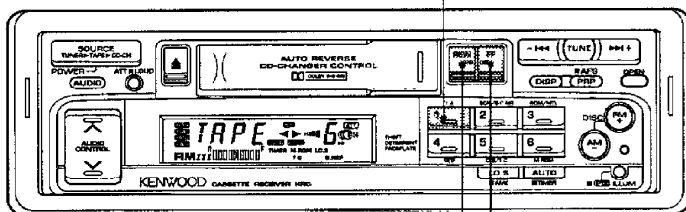
1

- ▶ Press the Tape advance button.
(The Tape advance indicator will appear on the display.)



TO STOP TAPE ADVANCE

- ▶ Press the Tape advance button again.
(The Tape advance indicator will disappear.)



2

To return to the start of the current track

- ▶ Press the REW button.
(The tape will rewind and the player will replay the track.)

2

To advance to the next track

- ▶ Press the FF button.
(The tape will fast forward and start playing the next track.)

NOTE

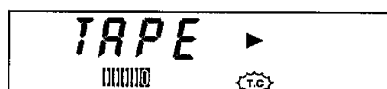
In the following cases, this function may not work as described.

- If the blank space between tracks is less than four seconds, preventing the player from detecting the break.
- If the volume is low for more than four seconds, causing the player to detect a break.

TUNER CALL

1

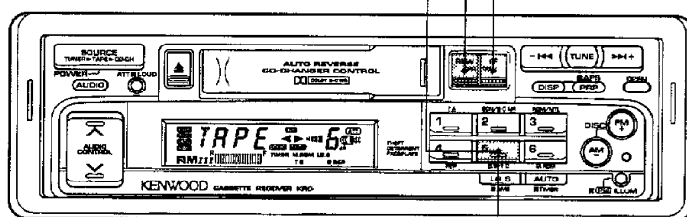
- ▶ Press the Tuner call button.
(The Tuner call indicator will appear on the display.)



ON

2

- You can now listen to the tuner while a tape is fast forwarding or rewinding.



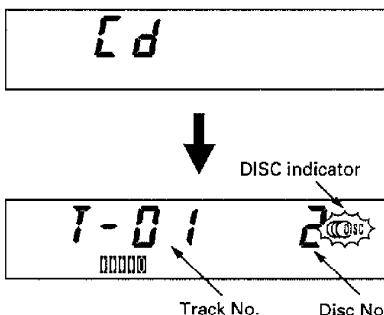
TO STOP TUNER CALL

- ▶ Press the Tuner call button again.
(The Tuner call indicator will disappear.)

TO PLAY COMPACT DISCS

TO START

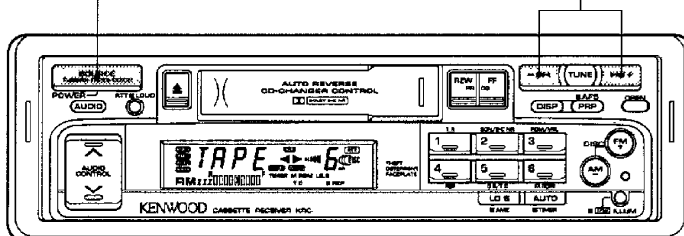
- Press the Source button to select CD auto changer mode.
(If you see the "Cd" display, you are in CD auto changer mode. The disc starts playing.)



TO SKIP AHEAD/BACK

Operation	Press
Ahead	▶▶
Back	◀◀

Hold down the button until you reach the track you want.



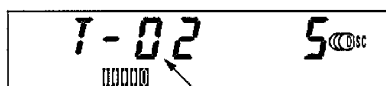
NOTE

- When the player reaches the end of the last track on the disc you are playing, it will shift automatically to the first track on the next disc in order.
- When you change the discs in the autochanger, the Load indicator will appear on the display.
- "0" indicates the No. 10 disc.

TRACK/DISC SEARCH

BACKWARD TRACK SEARCH

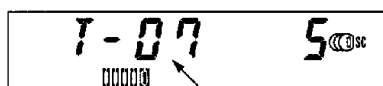
- ▶ Briefly press the **◀◀** button until you see the number of the track you want to play. The unit will begin playing the track shown on the display.



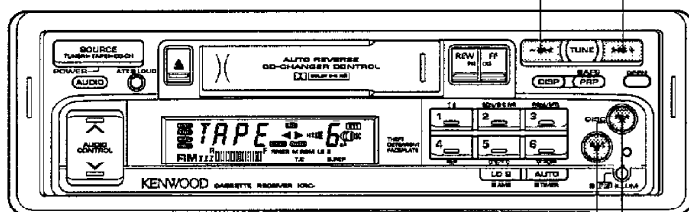
Track No.

FORWARD TRACK SEARCH

- ▶ Briefly press the **▶▶** button until you see the number of the track you want to play. The unit will begin playing the track shown on the display.

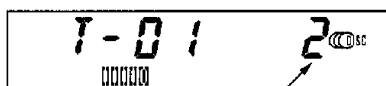


Track No.



BACKWARD DISC SEARCH

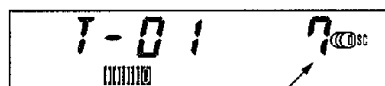
- ▶ Press the Disc- button until you see the number of the disc you want to play. The unit will begin playing the disc shown on the display.



Disc No.

FORWARD DISC SEARCH

- ▶ Press the Disc+ button until you see the number of the disc you want to play. The unit will begin playing the disc shown on the display.



Disc No.

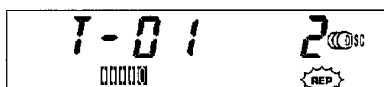
NOTE

- If you try Backward track search while playing track No. 1, the player will resume play at the start of track No. 1.
- If you try Forward track search while playing the last track on a disc, nothing will happen.

TRACK/DISC REPEAT

TO START TRACK REPEAT

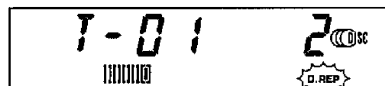
- ▶ Press the Repeat button.
(The Repeat indicator will appear on the display, and the player will repeat the track you are playing until you cancel repeat.)



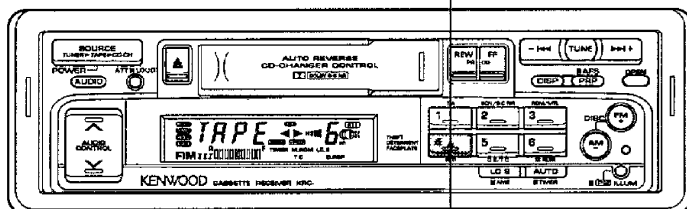
Track repeat ON

TO START DISC REPEAT

- ▶ Press the Repeat button twice.
(To use Track repeat function, press the Repeat button once.)
(The Disc repeat indicator will appear on the display, and the player will repeat the disc you are playing until you cancel repeat.)



Disc repeat ON



TO STOP

- ▶ Press the Repeat button again.
(To use Track repeat function, press the Repeat button twice.
To use Disc repeat function, press the Repeat button once.)
(The Disc repeat indicator will disappear.)

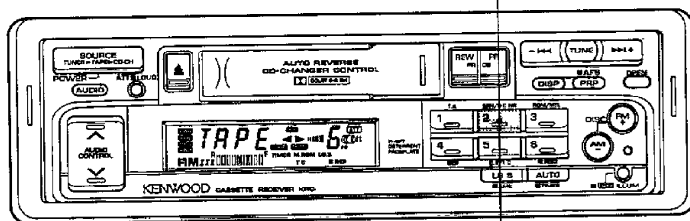
TRACK SCAN

1

- ▶ Press the Track scan button.

2

The player will play the first 10 seconds of each track. The track number will flash on the display.



3

- ▶ To select a track, press the Track scan button again. (Scanning will stop and playback begin.)

NOTE

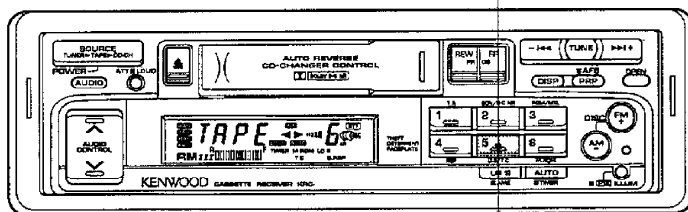
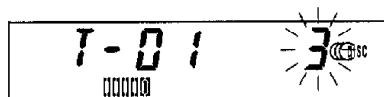
- The Track scan function will repeatedly play the beginnings of all the tracks on a disc until you select the track you want to play.

1

- Press the Disc scan button.

2

The player will play the first 10 seconds from each disc in the changer. The disc number will flash on the display.



3

- To select a disc, press the Disc scan button again. (Scanning will stop and playback begin.)

RANDOM PLAY

1

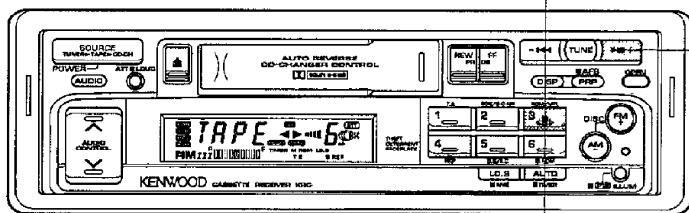
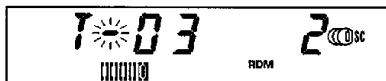
- ▶ Press the Random button.
(The Random indicator will light up, and the player will randomly select another track from the disc you are playing. The track numbers on the display will change continuously.)



During random search

2

- When the track is selected, playback will begin automatically. During random play the “-” indicator will flash on the display.



3 TO SELECT ANOTHER TRACK

- Press the **▶▶** button.
(The player will randomly choose another track.)

TO STOP

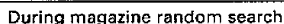
- Press the Random button again.
(The disc play returns to normal.)

NOTE

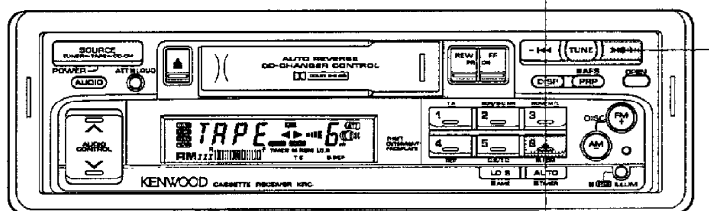
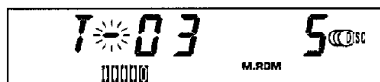
- When all the tracks on a disc have been played, the player will randomly select the next disc.

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► Press the Magazine random button.
(The Magazine random indicator will light up, and the player will randomly select a disc and track from the magazine in the changer. The track numbers and disc numbers on the display will change continuously.)



When the search is complete, playback will begin automatically. During magazine random play the "-" indicator will flash on the display.



► Press the **▶▶|** button.
(The player will randomly choose another disc and track.)

► Press the Magazine random button again.
(The disc play returns to normal.)

- This function is not available if you use the KDC-C100/C200/C300/C400/C301/C401 as the CD auto changer.

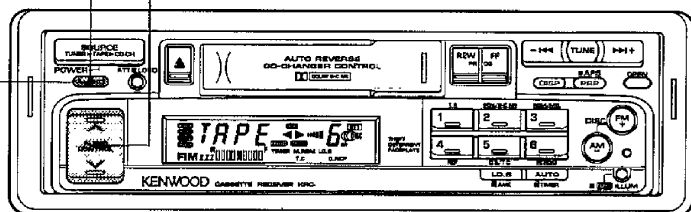
AUDIO CONTROLS

1

- ▶ To select Bass, Treble, Balance Fader, or return to volume, press the Audio button until the function indicator appears on the display.

2

- ▶ Use the control button to adjust the level of the function you've chosen (For details, see the table on page 29).

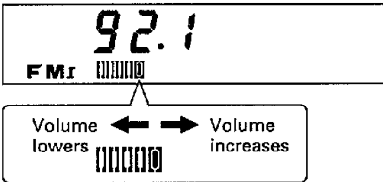
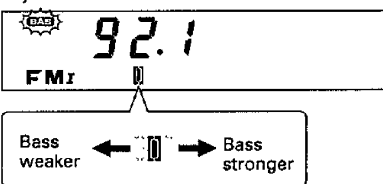
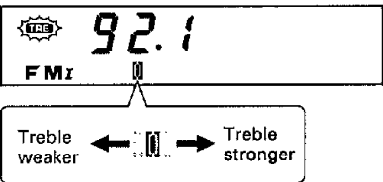
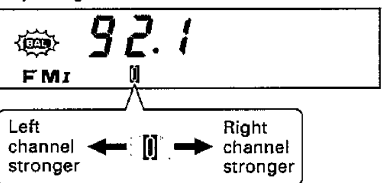
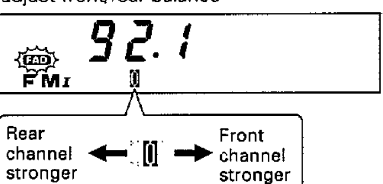


PLEASE OBSERVE

- ▶ If you press the Audio button for more than one second, or do nothing for five seconds, the control returns automatically to the Volume setting.

NOTE

- This unit allows the Tone (Bass and Treble) control to be set independently for Tuner, Tape and CD Auto Changer modes. The Tone settings will change automatically whenever you change from one mode to another.

Display	Audio Control Operation	
	Press the ∇ button	Press the \blacktriangle button
<p>To adjust volume</p> 	Volume lowers	Volume increases
<p>To adjust bass</p> 	Bass weaker	Bass stronger
<p>To adjust treble</p> 	Treble weaker	Treble stronger
<p>To adjust right/left channel balance</p> 	Left channel stronger	Right channel stronger
<p>To adjust front/rear balance</p> 	Rear channel stronger	Front channel stronger

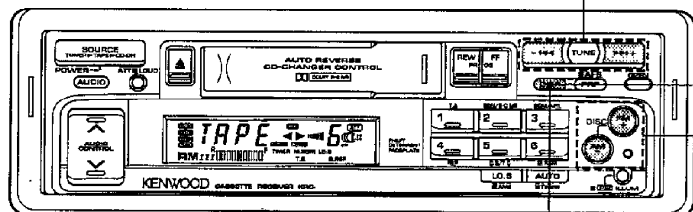
TUNER TIMER

1 To set the station

- ▶ Select the station you wish to receive.

2 To set the time

- ▶ Press the Timer adjust ("DISP") button for more than two seconds.
(When the tuner enters Set timer mode, the time display will blink.)



4 To start the timer

- ▶ Pressing the Timer adjust ("DISP") button for more than two seconds sets the confirms the time and station selected and turns on the timer.
(The Timer indicator appears on the display.)



NOTE

- To cancel the set timer mode, press briefly the Timer adjust ("DISP") button. The set timer mode is canceled and the time and frequency are not set.

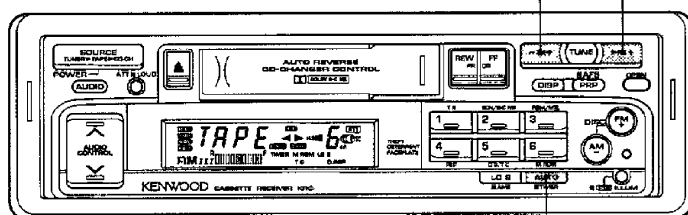
3

To set the hour

- ▶ Press the **◀◀** button until the hour you wish to select appears.

To set the minute

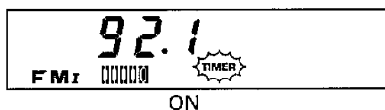
- ▶ Press the **▶▶** button until the minute you wish to select appears.



5

Turning the timer ON and OFF

- ▶ Press the Timer button for more than one second.
(If the Timer is on, it will turn off, and the Timer indicator will disappear from the display. If the Timer is off, it will turn on, and the Timer indicator will appear on the display.)



CLOCK DISPLAYS/SETTING

■ Displays change like this

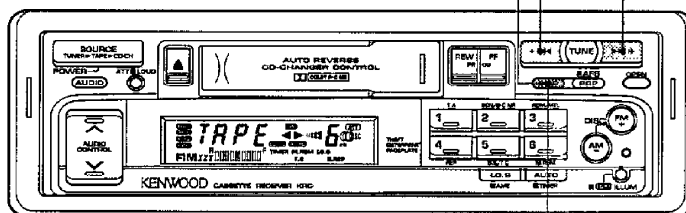
- Pressing the Display button changes displays as indicated to the right.



Time Display

(*A* is displayed during AM and *P* is displayed during PM.)

Mode	Displays
Tuner	Frequency ⇄ Time
Tape	"TAPE" ⇄ Time
CD Changer	Track Number ⇄ Time



■ To set the clock

1

- If the time is not being displayed, press the Display button.

2

- While holding down the Display button, press ◀◀ to change the hour and ▶▶ to change the minute.

NOTE

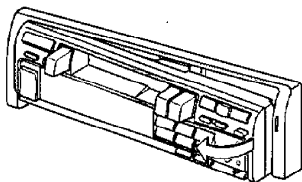
- When the Display button is pressed for 2 seconds or more in tuner mode, the tuner timer function starts.
To enter clock set mode, press the Display button for less than 2 seconds or press the ◀◀ / ▶▶ button.

THEFT DETERRENT FACEPLATE

■ To remove the faceplate

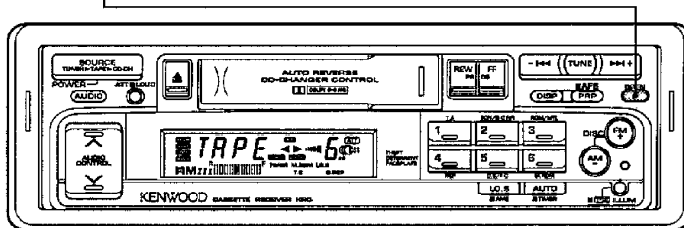
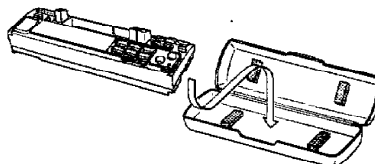
1

Press the Open button to unlock the faceplate, then remove carefully.



2

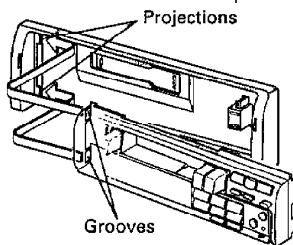
Place the faceplate in the storage case with the button side facing up.



■ To install the faceplate

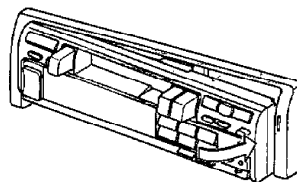
1

Align the projections on the faceplate mount with the grooves on the left side of the faceplate.



2

Press on the right side of the faceplate until it locks in place.



NOTE

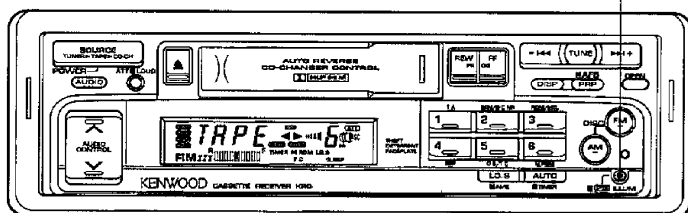
Disabled system Indicator

- To deter theft, this unit is equipped with a Disabled system indicator. It can be turned ON and OFF by holding down preset station buttons "1" and "3" while turning the power on.

SELECTABLE ILLUMINATION

■ Function of the KRC-860/660

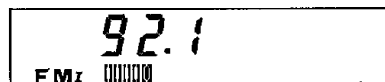
- Briefly press the Illumination button.
(The illumination will change from green to orange or vice-versa.)



SELECTABLE DISPLAY TYPE

■ Function of the KRC-860/660

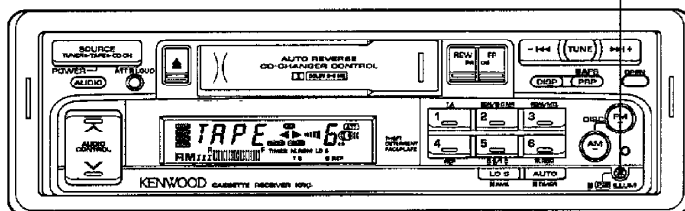
- ▶ Press the Positive/Negative button for more than one second.
(The display will change from negative to positive or vice-versa.)



Positive



Negative

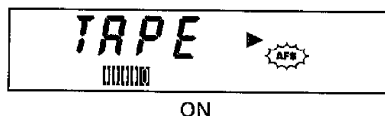


ACTIVE FRONT SURROUND

■ Function of the KRC-860

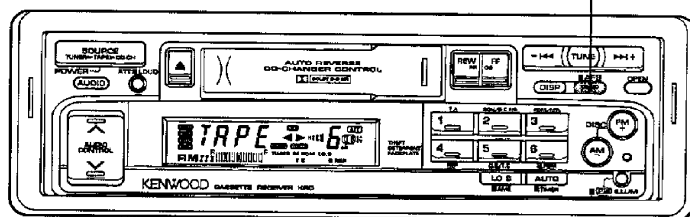
1

- ▶ Press the Active front surround button for more than one second. (The Active front surround indicator will light up, and the active front surround system will be turned ON.)



TO TURN OFF ACTIVE FRONT SURROUND

- ▶ Press the Active front surround button for more than one second. (The Active front surround indicator will go out, and the active front surround system will be turned OFF.)



NOTE

- When radio reception is poor, we recommend turning off the active front surround to make noise less conspicuous
- The active front surround effect is not available with monaural sources.

PHONE INTERFACE

■ Function of the KRC-860

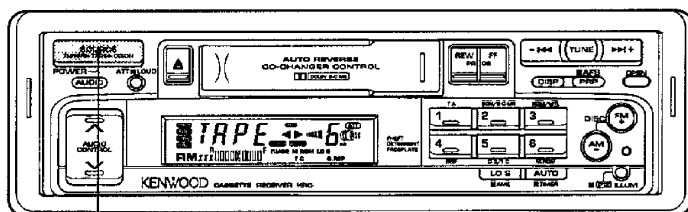
1

Connect the phone interface lead
(See. p. 40).

2

When a telephone call is received,
the display shows CALL, and the
current function pauses.

CALL



3

- ▶ To resume use of the previous
function, restart by pressing the
Source button.
(The Call indicator will disappear.)

NOTE

- This function does not start operating for 10 seconds after turning the ignition ON.

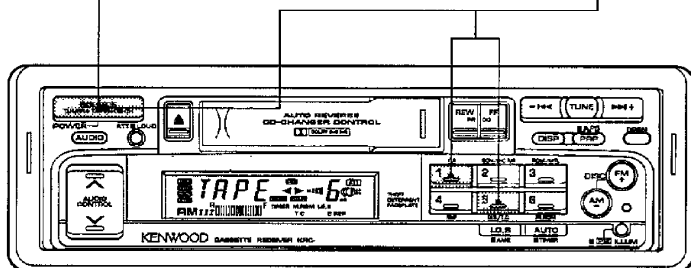
CHANNEL BAND SELECTION

1

Turn power OFF.

2

- ▶ Hold down preset station buttons "1" and "5".
- ▶ Turn power ON.
(The bands will change to 50kHz for FM and 9kHz for AM.)



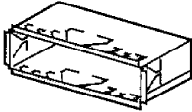
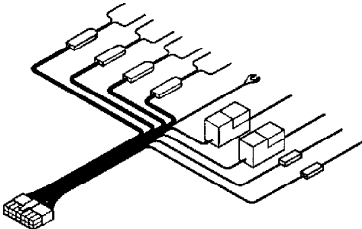
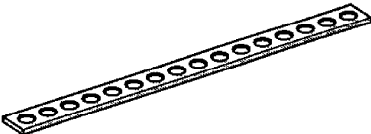

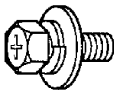

3

Repeating steps 1 and 2 will change the bands back to 200kHz for FM and 10kHz for AM.

NOTE

- When the bands are changed, all memory settings will be erased.
- This feature is not used in the United States and Canada.

ACCESSORIES

Part Name	External View	Number of Items
Mounting case		1
Wiring harness		1
Metal mounting strap		1
Removal tool		1
Assembly screw with washer (M4×8)		1
Machine screw (M5×6)		4

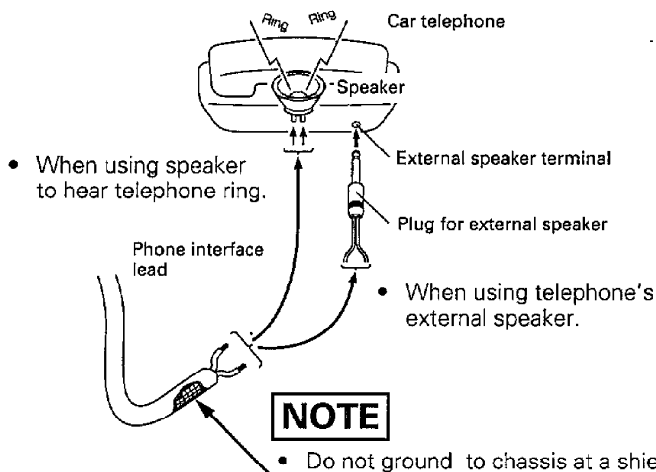
INSTALLATION PROCEDURE

1. Before starting installation, disconnect the negative (–) terminal of the battery. This will prevent short circuits.
2. Connect the Input and Output leads (p.41).
3. Connect the Ground lead (Black) to the metal body of the car (p.41).
4. Connect the Memory backup lead (Yellow) (p.41).
5. Connect the Power supply lead (Red) (p.41).
6. Install the unit in the car (p.42).
7. Connect the negative (–) terminal of the battery.
8. Press the Reset button.

⚠ CAUTION

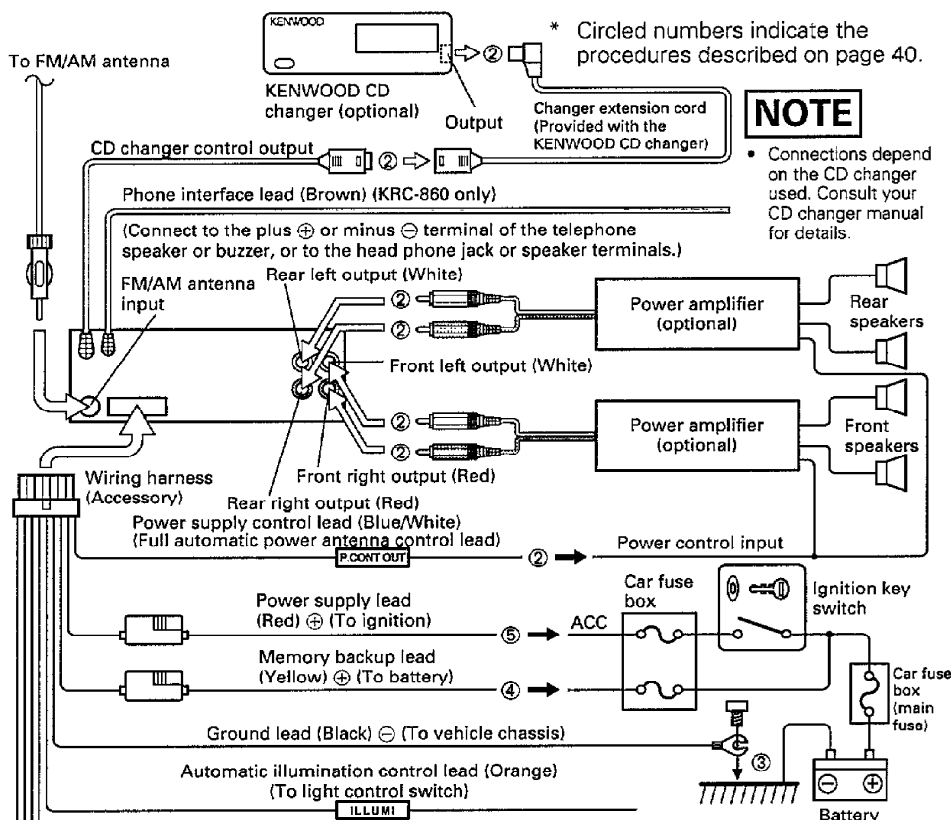
- A short circuit may cause a blown fuse. A short circuit is a serious problem that could also cause a fire. Check the wiring carefully and, if any wires are short-circuited, rewire immediately. If no short-circuits are found, replace the fuse with one having the same rating (see indication in fuse box).
- Check that no unconnected wires or connectors are in contact with the body of the car. Extraneous noise or current entering the system can cause malfunction or damage.
- To provide more power, this product is equipped with a BTL (Balanced Transformer Less) system. But in this type of system, sharing different speaker terminals or connecting or grounding speaker terminals to the car can cause distortion or damage.
- Please check that all electrical equipment in the car functions normally after installing the unit.

■ Example of telephone interface connection



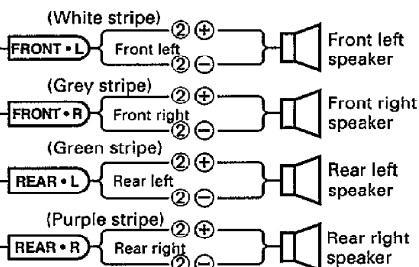
*Be sure to use a shielded cable.

CONNECTIONS



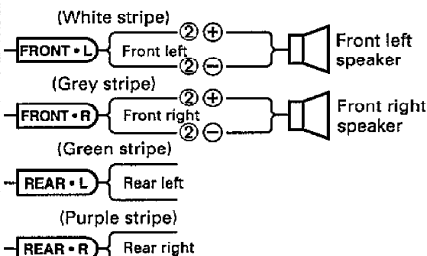
WARNING

- To prevent fires when the Power Supply lead (Red) and the Memory Backup lead (Yellow) are short-circuited by coming into contact with the vehicle chassis (ground), only connect the power supply after making the fuse box connections first.

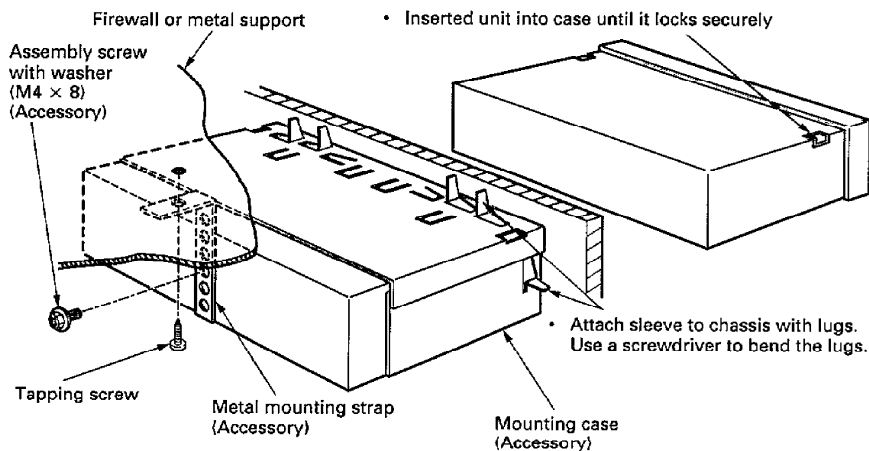


CAUTION

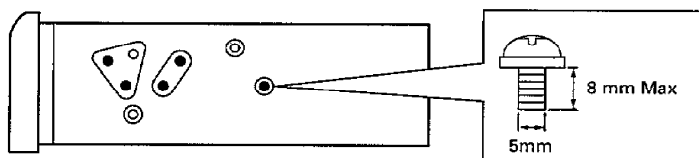
- When two speakers are connected to the system, be sure to connect them as indicated below. Any other connection will cause sound distortion and damage to the speakers.



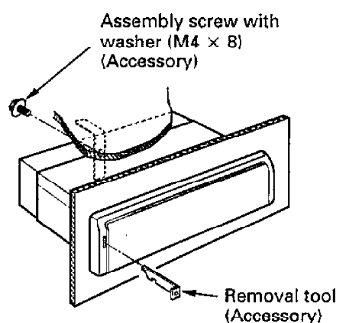
INSTALLATION



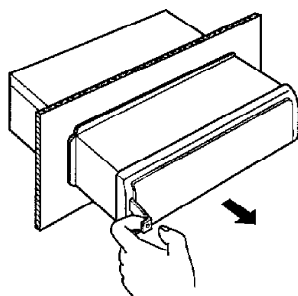
- When installing in some cars made in Japan, insert Machine screws (M5 x 6) into 2 of the holes indicated below.



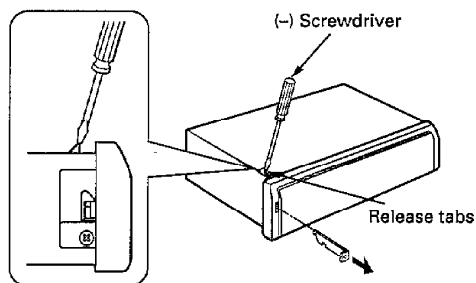
■ To remove the unit



1. Remove the assembly screw with washer holding on the back panel. Then insert removal tool into slot.



2. Use the removal tool to pull out the unit.



3. While using a screwdriver to press down the release tabs on the side of the chassis, pull out the removal tool.

TROUBLESHOOTING GUIDE

Often, what appears to be a malfunction is due to user error. Before calling for service, please consult the following table.

Symptom	Cause	Remedy
No sound from one channel.	The balance/fader control is turned all the way to one side.	Adjust the balance/fader control.
Poor reception.	The antenna is not extended.	Extend the antenna.
Sound quality is poor.	The tape head is dirty.	Use a head cleaning kit to clean head.
Controls do not function properly.	A power surge has caused the problem.	Press the Reset button on the front panel.
The phone interface isn't working.	The phone interface lead is not connected properly.	Reconnect it, following the instructions provided.
Phone interface signals "CALL" when no call has been received.	The phone interface lead is short-circuited; it may be worn or the cap at the tip may be missing.	Rewire, ensuring that there are no short circuits.
The tuner cannot be operated in the modes other than the Auto seek tuning and the Manual tuning.	The tuning is set to the Priority preset mode.	Cancel the Priority preset mode.

■ When the KENWOOD CD Changer is part of your system

Symptom	Cause	Remedy
CD play does not start.	Power button is not set at ON.	Turn power button ON, then press the Source button to set to the CD changer mode.
The specified disc is not played; the next disc is played instead.	<ol style="list-style-type: none">1. The specified disc is dirty2. The disc is upside down.3. Two discs are in the same position.4. The disc you want is in a different position from that indicated by the number you specify.5. The disc is scratched or seriously damaged.	<ol style="list-style-type: none">1. Clean the disc.2. Eject magazine and reinsert disc right side up.3. Eject magazine and reposition the discs.4. Eject magazine to check disc and position numbers, then specify again.5. Play other discs.
No sound is heard even though the changer indicator appears on the display.	<ol style="list-style-type: none">1. Volume is set to minimum level.2. The microprocessor is not operating correctly.3. The system is not properly connected.	<ol style="list-style-type: none">1. Raise the volume level.2. Press the Reset button.3. Check connections and reconnect if necessary.
The specified track is not played.	The player is set to RANDOM PLAY/MAGAZINE RANDOM PLAY.	Turn off RANDOM PLAY/MAGAZINE RANDOM PLAY.

In some cases, you may see one of the following error messages on your unit's display:

E-01: No disc magazine in changer, or magazine is not inserted properly.

E-02: No discs in disc magazine.

E-04: Disc is too dirty. There is water on the disc. The disc is upside down.

E-99: Incorrect operation.

⇒ Press the Reset button. If the "E-99" message does not disappear, contact your nearest KENWOOD service agent.

E-0D: When the temperature exceeds 60°C, a protection circuit will stop all operations. This error message will then appear.

⇒ As soon as the space where the changer is located cools off, this message will disappear automatically. If this message appears frequently, you should think about putting the changer in another location.

SPECIFICATIONS

Specifications subject to change without notice.

FM Tuner Section

Frequency Range (200 kHz space)	87.9 MHz~107.9 MHz
(50 kHz space)	87.5 MHz~108.0 MHz
Usable Sensitivity	12.0 dBf (1.1 μ V/75 ohms)
50 dB Quieting Sensitivity	15.2 dBf (1.6 μ V/75 ohms)
Frequency Response (± 3 dB)	30 Hz~15 kHz
Signal to Noise Ratio	73 dB
Selectivity	100 dB
Capture Ratio	1.5 dB
Image Response Ratio	70 dB
IF Response Ratio	120 dB
Stereo Separation (1 kHz)	40 dB

AM Tuner Section

Frequency Range (10 kHz space)	530 kHz~1,700 kHz
(9 kHz space)	531 kHz~1,611 kHz
Usable Sensitivity	28 dB (30 μ V)

Cassette Deck Section

Tape Speed	4.76 cm/sec.
Wow & Flutter (WRMS)	0.12% (WRMS)
Fast Winding Time (C-60)	100 sec.
Frequency Response (120 μ s)	30 Hz~14 kHz (± 3 dB)
(70 μ s)	30 Hz~16 kHz (± 3 dB)
Stereo Separation (1 kHz)	43 dB
Signal to Noise Ratio	54 dB
(Dolby-B NR ON / KRC-860 / 660 only)	63 dB
(Dolby-C NR ON / KRC-860 only)	71 dB

Audio Section

Maximum Output Power	25 W \times 4
Output Power (10% THD, 1 kHz, 4 ohms)	20 W \times 4
(1% THD, 30 Hz~20 kHz, 4 ohms)	15 W \times 4
Tone Action	Bass: 100 Hz \pm 10 dB Treble: 10 kHz \pm 10 dB
Preout level/load	1,000 mV (MAX.)/10 kohms

General

Operating Voltage	14.4 V (11~16 V allowable)
Current Consumption	7.5 A at Rated Power
Installation size (W \times H \times D)	182 \times 52 \times 153 mm (7-3/16 \times 2-1/16 \times 6 in.)
Weight	1.5 kg (3.3 lb)